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L2 ANSWER 1 OF 1 CA COPYRIGHT 2002 ACS
AN ***118:127738*** CA
TI Aluminum nitride powder having high resistance to water and chemicals
IN Hashimoto, Noboru; Seto, Kazuo
PA Matsushita Electric Works, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C01B021-072
CC 49-5 (Industrial Inorganic Chemicals)
Section cross-reference(s): 38
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04321506	A2	19921111	JP 1991-92424	19910423
	JP 2981002	B2	19991122		

OS MARPAT 118:127738
AB Organosilicon compd. layers (thickness .ltoreq.2 .mu.m) having siloxane bonding are formed on the surfaces of the AlN powder. The organosilicon compd. layers are prepd. from coating compns. contg. (A) SiO2-dispersed oligomer solns. of organosilane prepd. by hydrolysis of hydrolyzable organosilane having general formula R_1nSiX_{4-n} [R_1 = C1-8 monovalent hydrocarbon groups (same or different, substituted or unsubstituted); n = 0-3 (integers); X = hydrolyzable group] in org. solvent, or partial hydrolysis of organosilane in colloidal SiO2-dispersed org. solvent and water; (B) silanol group-contg. polyorganosiloxanes having av. compn. formula $R_2aSi(OH)bO(4-a-b)/2$ [R_2 = C1-8 monovalent hydrocarbon groups (same or different, substituted or unsubstituted); 0.2 .ltoreq. a .ltoreq. 2; 0.0001 .ltoreq. b .ltoreq. 3; but $a + b < 4$]; and (C) catalyst. The powder is used as filling materials for plastics.
ST aluminum nitride powder water resistance; chem resistance aluminum nitride powder; filler plastic aluminum nitride powder
IT Catalysts and Catalysis
(contg. dibutyl-tin-dilaurate, in formation of organosilicon compd. coatings on aluminum nitride powder)
IT Plastics
RL: USES (Uses)
(fillers for, organosilicon compd.-coated aluminum nitride powder as)
IT Silanes
Siloxanes and Silicones, uses
RL: USES (Uses)
(org., coatings, on aluminum nitride powder, for resistances to water and chems.)
IT Coating materials
(organosilicon compd., on aluminum nitride powder, for resistances to water and chems.)
IT Water-resistant materials
(fillers, chem.-resistant, organosilicon compd.-coated aluminum nitride powder as, for plastics)
IT 77-58-7 3069-29-2, N-.beta.-Aminoethyl-.gamma.-aminopropylmethyl-dimethoxysilane
RL: CAT (Catalyst use); USES (Uses)
(catalyst contg., in formation of organosilicon compd. coatings on aluminum nitride powder)
IT 24304-00-5, Aluminum nitride
RL: USES (Uses)
(powder, organosilicon compd.-coated, with resistances to water and chems., as fillers, for plastics)

ACN